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ANSWER 198 OF 301 CA COPYRIGHT 2006 ACS on STN
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AN
     106:125030 CA
     Entered STN: 17 Apr 1987
ED
TI
     High-strength cement composition
     Sakai, Etsuro; Shibayama, Yukio
IN
     Denki Kagaku Kogyo K. K., Japan
PA
     Jpn. Kokai Tokkyo Koho, 5 pp.
SO
     CODEN: JKXXAF
DT
     Patent
     Japanese
LA
     ICM C04B028-02
IC
    C04B028-02, C04B022-06, C04B024-22
ICI
     58-3 (Cement, Concrete, and Related Building Materials)
CC
FAN. CNT 1
                                                                     DATE
                         KIND
                                             APPLICATION NO.
                                 DATE
     PATENT NO.
                          ____
                                                                     19850205
                                             JP 1985-19292
                                 19860811
     JP 61178462
                          A2
                                 19850205
PRAI JP 1985-19292
CLASS
                 CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
                 ICM
                        C04B028-02
 JP 61178462
                        C04B028-02, C04B022-06, C04B024-22
                 ICI
                         C04B0028-02 [ICM,4]; C04B0028-02 [ICI,4]; C04B0022-06
                         [ICI,4]; C04B0024-22 [ICI,4]
     In a high-strength cement composition containing cement, ultrafine powder,
AB
     high-performance water-reducing agent, and water, crushed opal-based
     siliceous rock, blast-furnace slag, or fly ash is used as the ultrafine
     powder and this reduces the shrinkage during its hardening. Thus, a test
     piece manufactured from a raw mix containing cement 80, fly ash
     (mean particle size 3.04µ) 20, sand 120,
     high-performance water-reducing agent 2, and water ≥1 weight parts had
     compressive strength 1423 kg/cm2 and hardening shrinkage 1.4%.
     fly ash mortar hardening shrinkage; blast furnace slag mortar hardening
ST
     shrinkage; silica powder mortar hardening shrinkage
IT
     Ashes (residues)
        (coal fly, mortar from cement and, with low hardening shrinkage)
ΙT
        (from cement with fly ash or siliceous rock or blast-furnace slag, with
        low hardening shrinkage)
IT
     Slags
        (blast-furnace, mortar from cement and, with low hardening shrinkage)
IT
     7631-86-9, Silica, uses and miscellaneous
     RL: USES (Uses)
        (powder, mortar from cement and, with low hardening shrinkage)
                   - cement (3.04 am mear garlie size)
- Fly ash
- water relating sight
- water
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